

CLAIMS

1. (Amended) A multi-layer magnetic part, comprising:

a composite sheet obtained by applying a magnetic
5 body paste to a substrate rendering the center and periphery
thereof a magnetic pattern, and by applying a nonmagnetic body
pattern to a substrate rendering a part thereof except the center
and periphery a dielectric pattern comprising a nonmagnetic body;

a primary winding or secondary winding, or both such
10 primary and secondary windings, provided on one face of the
dielectric pattern and around the center;

a primary winding or secondary winding, or both such
primary and secondary windings, provided on the other face of
the dielectric pattern and around the center; and

15 a pair of magnetic sheets which are obtained by
applying a magnetic body paste to a substrate and drying the paste
and which hold the composite sheet and the primary and secondary
windings from both sides and contact one another via the magnetic
pattern.

20 2. The multi-layer magnetic part according to claim 1, wherein
the composite sheet the center and periphery of which are a
magnetic pattern and a part of which except the center and
periphery is a dielectric pattern comprising a nonmagnetic body
25 is inserted between the magnetic sheet and the primary or
secondary winding.

3. (Amended) The multi-layer magnetic part according to claim
1 or 2, wherein the composite sheet is stacked in a plurality
30 of layers; and

through-holes connecting respectively a plurality of primary windings and a plurality of secondary windings located with the dielectric pattern of the composite sheets interposed therebetween are provided in the composite sheets.

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4. (Amended) The multi-layer magnetic part according to claim 1, 2, or 3, wherein the film thickness of the magnetic pattern and the film thickness of the dielectric pattern of the composite sheet are equal.

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5. (Amended) A method of fabricating the multi-layer magnetic part according to any of claims 1 to 5, comprising the steps of:

creating the magnetic sheet by applying a magnetic body paste to a substrate and drying the paste;

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creating the composite sheet separately by applying a nonmagnetic body paste to a substrate in the form of the dielectric pattern and applying a magnetic body paste to the substrate in the form of the magnetic pattern and drying the pastes;

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creating the primary and secondary windings by applying a conductor paste to the composite sheet or the magnetic sheet and drying the paste; and

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peeling the magnetic sheet and the composite sheet thus obtained from the substrate and stacking the magnetic sheet and composite sheet and pressurizing same to produce a stacked body, and firing the stacked body.